

Claims:

1. Wireless transmission system designed for the transmission of data in the 60 GHz range,

the system comprising:

- a public download server connected to an information source, and
- a mobile terminal provided with a narrow beam antenna.

2. System according to claim 1, characterized in that the communication range is 20 meters or less.

3. System according to claim 1, characterized in that the public download server is connected to a broadband data highway or a main server by means of an optical cable.

4. System according to claim 1, characterized in that the public download server is connected to a broadband data highway or a main server by means of a wireless point-to-point connection.

5. System according to claim 1, characterized in that the public download server is connected to a broadband data highway or a main server by means of a point to-multipoint wireless local loop connection.

6. System according to claim 1, characterized in that the public download server and the mobile terminal are designed for a dual frequency operation, one transmission frequency being the 60 GHz range and a second transmission frequency being an intermediate frequency below the 60 GHz range.

7. System according to claim 1, characterized in that the public domain server is provided with a wide angle beam antenna.

8. System according to claim 1, characterized in that the public domain server is provided with an antenna with a kidney shaped beam in cross-section.

9. System according to claim 1, characterized in that the public domain server and the mobile terminal are designed exclusively for uploading/downloading content from the public domain server to the mobile terminal.

5           10. Wireless transmission system designed for the transmission of data in the 60 GHz range,

the system comprising:

- a fixed hub provided with a wide angle beam antenna, and
- a mobile terminal provided with a narrow beam antenna.

10           11. System according to claim 10, characterized in that the communication range is 2.0 meters or less.

15           12. System according to claim 10, characterized in that the fixed hub is connected to a broadband data highway or a main server by means of an optical cable.

13. System according to claim 10, characterized in that the fixed hub is connected to a broadband data highway or a main server by means of a wireless point-to-point connection.

20           14. System according to claim 10, characterized in that the fixed hub is connected to a broadband data highway or a main server by means of a multipoint wireless local loop connection.

25           15. System according to claim 10, characterized in that the fixed hub and the mobile terminal are designed for a dual frequency operation, one transmission frequency being the 60 GHz range and a second transmission frequency being an intermediate frequency below the 60 GHz range.

30           16. System according to claim 10, characterized in that the fixed hub is provided with an antenna with a kidney shaped beam in cross-section.

17. System according to claim 10, characterized in that the fixed hub and the mobile terminal are designed exclusively for downloading content from the fixed hub to the mobile terminal.

18. Wireless transmission system designed for the transmission of data in the 60 GHz range, the system comprising, at least two mobile terminals respectively provided with a narrow angle antenna for communication with each other.

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19. System according to claim 18, characterized in that the communication range is 20 meters or less.

20. System according to claim 18, characterized in that the mobile terminals are respectively provided with game software to enable the users to play games with each other by means of the mobile terminals.

21. System according to claim 18, characterized in that the mobile terminals are respectively designed for a dual frequency operation, one transmission frequency being the 60 GHz range and a second transmission frequency being an intermediate frequency below the 60 GHz range.

22. Wireless transmission system, comprising a plurality of public access server and at least one mobile terminal, wherein the mobile terminal is designed to upload/download content from the public access server by means of a wireless transmission and the public download server all operate with the same transmission frequency in a non-licensed frequency band.

23. Wireless transmission system according to claim 22, characterized in that the communication between the mobile terminal and respectively a public access server is free of charge.

24. Wireless transmission system according to claim 22, characterized in that the uploading/downloading of content is charged to the user of the mobile terminal.

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25. Wireless transmission system according to claim 22, characterized in that there is no hand-over between adjacent public access server.

26. Method for uploading and/or downloading content from a public access server to/from mobile terminals over an air interface, wherein the air interface uses a non-licensed frequency band and the transmission itself is free of charge.

5           27. Method according to claim 26, characterized in that the user of a mobile terminal is charged for uploading/downloading content.

28. Method according to claim 26, characterized in that a service provider is owner of at least one public access server.

10           29. Method according to claim 26, characterized in that the non-licensed frequency band is a 60 GHz band.

15           30. Method according to claim 26, characterized in that the public access server is installed in a large hall environment.

31. Method according to claim 26, characterized in that the public access server is installed in public vehicles.

20           32. Method according to claim 26, characterized in that the public access server is installed facing sidewalks.

33. Method according to claim 26, characterized in that the public access server is installed at gas stations or traffic lights.